CLAIMS

1. A fluororubber copolymer comprising
40 to 70 % by mol of vinylidene fluoride units,
10 to 25 % by mol of tetrafluoroethylene units, and
20 to 35 % by mol of perfluoro(methyl vinyl) ether units, and
containing 0.05 to 2 % by weight of iodine based on said copolymer;
obtained by radical polymerization in the presence of a diiodine compound represented by the following formula (1):

$$RI_2 \qquad (1)$$

(wherein R is a saturated fluorohydrocarbon group or a chlorofluorohydrocarbon group having 1 to 16 carbon atoms or a hydrocarbon group having 1 to 3 carbon atoms);
wherein after vulcanization,
TR70 in a TR test according to ASTM D1329 is –20 to –30°C, and
the volume change ratio after immersing at 40°C × 70 hours in a mixture comprising fuel C:methanol = 15:85 weight ratio is 8 to 20 %.

2. The fluororubber copolymer of Claim 1, wherein said volume change ratio is 8 to 18 %.

3. The fluororubber copolymer of Claim 1, which further comprises at most 1.5 % by mol of an iodine-containing fluorinated vinyl ether unit represented by the following formula (2):

$$I((CH_2)_lCF_2CF_2(O)_m)_n(CF(CF_3)CF_2O)_oCX=CX_2 \qquad (2)$$

(wherein l is an integer of 0 to 2, m is an integer of 0 to 1, n is an integer of 0 to 5, o is an integer of 0 to 3, X are respectively independent fluorine or hydrogen).

4. The fluororubber copolymer of Claim 1, wherein said volume change ratio is 8 to 16 %.